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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/883,139	06/15/2001	James A. Lynn	01-023	8289

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EXAMINER

CHEN, ALAN S

ART UNIT PAPER NUMBER

2182

DATE MAILED: 06/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/883,139	Applicant(s) LYNN ET AL.	
	Examiner Alan S Chen	Art Unit 2182	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on after final amendment received 05/062004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

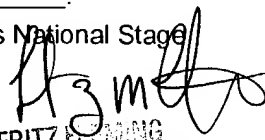
Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.


FRITZ FLEMING
PRIMARY EXAMINER
GROUP 2100

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED FINAL ACTION

Double Patenting

1. Claims 12-15 are objected to under 37 CFR 1.75 as being a substantial duplicate of claims 2-5, respectively. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k). Examiner has assumed that claims 12 and 13 are dependent on claims 11, claim 14 as dependent on claims 13 and claim 15 as dependent on claim 14 in his subsequent rejections.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 4, 9 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

4. Claims 4, 9 and 14 recites the limitation "said anchor" in line 2 of each respectively claims. There is insufficient antecedent basis for this limitation in the claim. Examiner has assumed that claims 4, 9 and 14 references back to claims 3, 8 and 13, respectively, in his subsequent rejections.

5. Claims 5, 10 and 15 are rejected as being dependent on a rejected base claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-4,6-9 and 11-14 are rejected under 35 U.S.C. 102(b) as being anticipated by No. 6,044,411 to Berglund et al (hereafter Berglund).

7. In reference to Claims 1, 6 and 11, Berglund discloses a method and computer readable medium to associate data with physical devices comprising the steps of:

a) starting with a first SCSI enclosure service data location, where Berglund's method and computer readable medium goes sequentially down the network of devices defining unique enclosure addresses in the enclosure and the backplanes within each enclosure, starting with the first device (column 7, lines 40-48 and column 7, lines 6-10 of Berglund).

b) comparing one or more addresses, where Berglund's method and computer readable medium correlates physical addresses to logical addresses (column 4, lines 25-30 and column 5, lines 1-27).

c) mapping correlating addresses in response to said comparison, where Berglund's method and computer readable medium correlates physical addresses to logical addresses from comparison (column 4, lines 25-30 and column 5, lines 1-27).

d) removes at least one SES device and drive which have been successfully mapped from the physical address map (column 4, lines 40-45), utilized for further mapping to allow for another mapping of a previous failed mapping of an enclosure. Berglund discloses a method and

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computer readable medium upon which "concurrent maintenance" occurs that deals with the changing of logical addresses when a device error is reported (column 8, lines 13-21) and therefore must remove the original logical addresses.

8. In reference to Claims 2, 7 and 12, Berglund discloses a method and computer readable medium of claims 1, 6 and 11 that performs comparison in the forward direction, e.g., sequentially down the network of devices (column 7, lines 40-48).

9. In reference to Claims 3-4, 8-9 and 13-14 Berglund discloses a method and computer readable medium of claims 1, 6 and 11, respectively that sets the starting point, the anchor, of the comparison as the first device (column 7, lines 40-48 and Fig.2, element 217A).

Response to Arguments

Rejections under 35 U.S.C. 102(b)

Claims 1-4, 6-9 and 11-14

10. Applicant argues Berglund does not disclose, teach or suggest removing data associated with at least one of a SCSI enclosure service device and a drive from a loop map and that interpretation of a change of logical address means "removed and replaced with a new one" is not supported in any fashion by Berglund.

Examiner Berglund does in fact teach explicitly the removal data associate with at least on of a SCSI enclosure service device and a drive from a loop map and hence requiring the change of a logical address in the physical to logical address mapping the invention discloses. This is disclosed in several places in Berglund. In Column 6, lines 63-Column 7, lines 11, Berglund discloses the need to "efficiently locate components in need of service, replacement or upgrading ... and correct the problem". It is clear that once the component is swapped out, the

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physical to logical mapping will change. The physical address will remain the same, but the logical address/information that it is mapped to will clearly change. This is further supported in Column 8, lines 25-35, the non-volatile memory stores other information mapped to the physical address, termed vital product data, such as field replaceable unit, model number, etc., that identify the card that is plugged into the backplane, DASD device, etc. When these cards or devices are swapped out, this information will change. Berglund further discloses the removal and replacement of the logical information in Column 10, lines 44-54. Here, "hot-pluggability" is disclosed, where devices can be plugged-in and removed while the system is still running and real-time correlation, e.g., physical to logical mapping information, will be needed to retain proper hardware resource information in the operating system.

Claims 5, 10 and 15

11. The examiner has re-evaluated the rejection of claims 5, 10 and 15 in light of arguments presented. The examiner now agrees that Berglund does not show comparing one or more addresses, where if more than one match is found, it is marked as ambiguous. Berglund teaches the correlation and comparison of physical and logical addresses, and in the case when an address has an error due to hardware problems, insertion/removal of device, etc., the address is then changed. It does not expressly indicate that this address is marked/changed to being ambiguous.

Allowable Subject Matter

12. Claims 5, 10 and 15 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

13. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

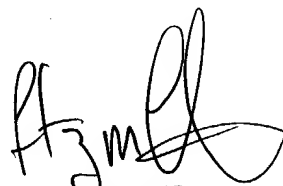
14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan S Chen whose telephone number is 703-605-0708. The examiner can normally be reached on M-F 8:30am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A Gaffin can be reached on 703-308-3301. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ASC
6/7/2004


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